

METHOD AND APPARATUS FOR HIGH SPEED DIGITIZED EXPOSURE

ABSTRACT OF THE DISCLOSURE

A light modulation and exposure system comprising: a light source; a light sensitive media; a two-dimensional light modulator containing a plurality of rows of light valves; means of imaging light source onto light modulator and light modulator onto light sensitive material; means of generating relative motion between image of light modulator and light sensitive material; means of shifting into the first of rows the data to be imaged onto light sensitive material and means of editing data from the first row to subsequent rows of modulator at a rate keeping the image of individual data pattern substantially stationary relative to light sensitive material until data transferred to the selected final rows; this sequence continuing until all data to be imaged has passed through light modulator. The two-dimensional light modulator may be oriented at a rotation relative to the direction of motion of the light sensitive media in a manner conducive to achieving variable resolution levels and half-tone generation.